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**Biology Evolution (Ch.15 Outline)**

***AS YOU READ, RESPOND TO THE FOLLOWING:***

*Vocabulary*: **Define in your own words:**

Artificial Selection-

Natural Selection-

Evolution

Biogeography-

Fitness-

Mimicry-

Genetic drift-

founder effect-

bottleneck-

gradualism-

Respond to the prompts below:

In terms of comparative anatomy, compare and contrast the following: homologous structures, vestigial structures, and analogous structures. (3 pts)

What is the difference between ancestral and derived traits? Explain. (2 pts)

Explain how the continued development of antibiotics has lead to resistance to antibiotics with some diseases. (2 pts)

Explain what the Hardy-Weinberg principle is and the five major violations of the principle. (6 pts)

What are the three main ways in which natural selection alters phenotypes? Also, explain how sexual selection can be considered a type of natural selection. (4 pts)

Compare and contrast the two major types of speciation: allopatric speciation and sympatric speciation. (4 pts)

***ABOUT THE READING:***

Write three things that you learned about Evolution*:*

***Make sure to write a full sentence.***

*Example: I learned that Charles Lyell's book "Principles of Geology" supported Darwin's idea that evolution requires a significant of time to occur generally.*

*1.*

*2.*

*3.*